

Title (en)  
RIBBON FLOW CYTOMETRY AND CELL SORTING

Title (de)  
BAND-DURCHFLUSSZYTOMETRIE UND ZELLSORTIERUNG

Title (fr)  
CYTOMETRIE EN FLUX SUR RUBAN ET TRIAGE DE CELLULES

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Application  
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Abstract (en)  
[origin: WO03078065A1] Described herein is microfluidic device (10) for joining fluids and a related method for doing the same. The device according to the present invention includes a microfluidic junction (12), an outlet channel (14), and a plurality of circuit units (16, 18, 20). A microfluidic junction (2) is an area for converging multiple fluids. An outlet channel (14) is capable of receiving fluid from the microfluidic junction (12). An outlet channel (14) includes a first end connected with the microfluidic junction (12), a second end connected with a waste reservoir (22), and an analysis region (24) positioned between the first end and the second end of the outlet channel (14). The device also includes a plurality of circuit units (16, 18, 20). Each circuit unit includes a source channel (28) with a first end capable of receiving sample fluid and a second end connected with the microfluidic junction (12); a branch channel (30) connected with the source channel (28) at an intersection; and a flow diversion system capable of differentially directing fluid flowing through a source channel either into the microfluidic junction (12) or into a branch channel (30).

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